Lecture Notes on Matrix Addition, Subtraction, and Scalar Multiplication.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1ST HALF** | 0-20 yards | 21-50 yards | Over 50 yards | **2nd HALF** | 0-20 yards | 21-50 yards | Over 50 yards |
| Touch Downs | 10 | 7 | 2 | Touch Downs | 11 | 3 | 1 |
| Field Goals | 5 | 2 | 0 | Field Goals | 10 | 0 | 0 |

A coach compiles his teams scoring statistics in terms of how far they were from the end-zone and what half they were in at the time. He used the above chart to record his data.

The coach wants to make a chart that reflects the entire game as opposed to the two halves. How would he do this?

Use Matrices:

|  |  |  |  |
| --- | --- | --- | --- |
| **ENTIRE GAME** | 0-20 yards | 21-50 yards | Over 50 yards |
| Touch Downs | 21 | 10 | 3 |
| Field Goals | 15 | 2 | 0 |

The coach also decided that he wants to set a team goal to DOUBLE the amount of scoring they did last year. How would he do this?

Again… Use Matrices:

|  |  |  |  |
| --- | --- | --- | --- |
| **ENTIRE GAME**  **(This Year)** | 0-20 yards | 21-50 yards | Over 50 yards |
| Touch Downs | 42 | 20 | 6 |
| Field Goals | 30 | 4 | 0 |